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An incubator includes an incubator ring assembly having at least two concentric rings supported for rotation about a common axle defining an axis of rotation. Each concentric ring includes a plurality of circumferentially defined load positions, each load position being sized for accommodating a test sample. At least one test station is arranged in relation to the plurality of load positions to selectively test a test sample, the test samples being sequentially shuttled into and out of load positions of at least one of the concentric rings to increase the overall throughput of the analyzer.